



Fact Sheet — Tornadoes

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Tornado Watches and Warnings

A tornado watch is issued by the National Weather Service when weather conditions are such that tornadoes are likely to develop. This is the time to remind family members where the safest places within your home are located, and to listen to the radio or television for further developments.

A tornado warning is issued when a tornado has been sighted or indicated by radar. The danger is very serious and everyone should go to a safe place, turn on a battery-operated radio and wait for further instructions.

Mobile Homes

Mobile homes are particularly vulnerable. A mobile home can overturn very easily even if precautions have been taken to tie down the unit. When a tornado warning is issued, take shelter in a building with a strong foundation. If shelter is not available, lie in a ditch or low-lying area a safe distance away from the unit.

Tornado Danger Signs

Learn these tornado danger signs:

- Large hail—Tornadoes are spawned from powerful thunderstorms and the most powerful thunderstorms produce large hail. Tornadoes frequently emerge from near the hail-producing portion of the storm.
- Calm before the storm—Before a tornado hits, the wind may die down and the air may become very still.
- Cloud of debris—An approaching cloud of debris can mark the location of a tornado even if a funnel is not visible.
- Funnel cloud—A visible rotating extension of the cloud base is a sign that a tornado may develop. A tornado is evident when one or more of the clouds turns greenish (a phenomenon caused by hail) and a dark funnel descends.

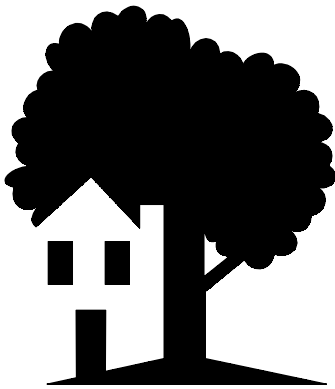
This document is IFAS publication DH 1004.

Adapted by UF/IFAS from:
Federal Emergency
Management Agency
(FEMA)

- Roaring noise—The high winds of a tornado can cause a roar that is often compared with the sound of a freight train.
- Calm behind the storm—Tornados generally occur near the trailing edge of a thunderstorm. It is not uncommon to see clear, sunlit skies behind a tornado.

When a tornado is coming, you have only a short amount of time to make life-or-death decisions. Advance planning and quick response are the keys to surviving a tornado.

Before



- Conduct tornado drills each tornado season.
- Designate an area in the home as a shelter, and practice having everyone in the family go there in response to a tornado threat.
- Discuss with family members the difference between a tornado watch and a tornado warning.
- Contact your local emergency management office or American Red Cross chapter for more information on tornados.
- Have disaster supplies on hand.
 - Flashlight and extra batteries
 - Portable, battery-operated radio and extra batteries
 - First aid kit and manual
 - Emergency food and water
 - Nonelectric can opener
 - Essential medicines
 - Cash and credit cards
 - Sturdy shoes
- If family members are separated during a tornado (a real possibility during the day when adults are at work and children are at school), have a plan for getting back together.
- Ask an out-of-state relative or friend to serve as the "family contact." After a disaster, it's often easier to call long distance. Make sure everyone in the family knows the name, address, and phone number of the contact person.

During

If at home:

- Go at once to the basement, storm cellar, or the lowest level of the building.
- If there is no basement, go to an inner hallway or a smaller inner room without windows, such as a bathroom or closet.
- Get away from the windows.
- Go to the center of the room. Stay away from corners because they tend to attract debris.
- Get under a piece of sturdy furniture such as a workbench or heavy table or desk and hold on to it.
- Use arms to protect head and neck.
- If in a mobile home, get out and find shelter elsewhere.

If at work or school:



- Go to the basement or to an inside hallway at the lowest level.
- Avoid places with wide-span roofs such as auditoriums, cafeterias, large hallways, or shopping malls.
- Get under a piece of sturdy furniture such as a workbench or heavy table or desk and hold on to it.
- Use arms to protect head and neck.

If outdoors:

- If possible, get inside a building.
- If shelter is not available or there is no time to get indoors, lie in a ditch or low-lying area or crouch near a strong building. Be aware of the potential for flooding.
- Use arms to protect head and neck.

If in a car:



- Never try to “out-drive” a tornado in a car or truck. Tornadoes can change direction quickly and can lift up a car or truck and toss it through the air.
- Leave the car immediately and take shelter in a nearby building.
- If there is no time to get indoors, get out of the car and lie in a ditch or low-lying area away from the vehicle. Be aware of the potential for flooding.



“Remember to help neighbors who may need special assistance: infants, the elderly and people with disabilities.”

After

- Help injured or trapped persons
- Give first aid when appropriate. Don't move the seriously injured unless they are in immediate danger of further injury. Call for help.
- Turn on radio or television to get the latest information.
- Stay out of damaged buildings. Return home only when authorities say it is safe.
- Use the telephone only for emergency calls.
- Clean up spilled medicines, bleaches, or gasoline or other flammable liquids immediately. Leave the building if you smell gas or chemical fumes.
- Take pictures of damage to the house and its contents for insurance purposes.
- Remember to help neighbors who may require special assistance: infants, the elderly and people with disabilities.

Inspecting Utilities in a Damaged Home

Check for gas leaks. If you smell gas or hear a blowing or hissing noise, open a window and quickly leave the building. Turn off the gas at the outside main valve if you can and call the gas company from a neighbor's home. If you turn off the gas for any reason, it must be turned back on by a professional.

Look for electrical system damage. If you see sparks or broken or frayed wires, or if you smell hot insulation, turn off the electricity at the main fuse box or circuit breaker. Do not step in water to get to the fuse box or circuit breaker; call an electrician for advice.

Check for sewage and water line damage. If you suspect sewage lines are damaged, avoid using toilets and call a plumber. If water pipes are damaged, contact the water company and avoid using tap water. You can obtain safe water by melting ice cubes.

Mitigation

Mitigation includes any activities that prevent an emergency, reduce its chance of happening or lessen the damaging effects of unavoidable emergencies. Investing in preventive mitigation steps now, such as checking local building codes and ordinances about wind-resistant designs and strengthening unreinforced masonry, will help reduce the impact of tornados in the future.